

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave.St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001287**Date Inspected:** 02-Sep-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Miscellaneous Metal, Lift 3 East, Lift**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Office

Organize project files and documentation

Miscellaneous Metal

Adhesion testing performed on Interzinc 22 coated surfaces. Test #1) .28Mpa Failed test was performed on Traveler Rail Bracket, Test #2) 7.23Mpa Passed test was performed on a Cable Tray Support. Test #1 will be re-tested.

Lift 3 East

Repairs were performed on weld repair areas on upper floor beams and localized areas of floor "T" stiffener locations, surface preparation performed with power wire wheel and Interzinc 52 applied in excess of 150mm X 150mm to areas of upper floor beams. Incident report was previously sent relative to this work.

Lift 3 West

Bottom Plate at cross beam attachment area final Inspection prior to bolt up and assembly of bottom plate work was incomplete at time of this inspection, work rejected by Caltrans QA Lumley.

Miscellaneous Metal

Small splice plates and grating supports for tower, base metal surfaces were de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

Miscellaneous Metal

SOURCE INSPECTION REPORT

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Base metal surfaces of 28 splice plates were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 applied. Profile amplitude was 70-74um.

Lift 2 East

Repairs were made to damage on previously applied by complete removal of existing Interzinc 22 via abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 to affected areas. Areas of repairs were weld seams at Panel Points #1 & 18, floor areas and "T" stiffeners also areas of the Longitudinal Floor Beams and Chevron Beams. Profile amplitude was 75, 78, 80 respectively.

Lift 3 West

Affixed Traveler Brackets and Counterweights and Suspender Brackets Galvanized bolts were coated with Interzinc 52 after cleaning in accordance with SSPC SP-2 prior to application of Interzinc 979.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

Caltrans QA Lumley informed ABF QA Bill Oak that ZPMC applied Interzinc 52 in excess of 150mmX150mm to locations on surfaces of Lift 3 East internal Floor Beam areas.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
